

7.2 Day 2 (Mult. with Rational Exponents) Worksheet**Simplify each expression.**

1. $z^8 z^5$

2. $-4k^3 \cdot 6k^4$

3. $(-5b^3)(-3b^6)$

4. $(13x^8)(3x^{10})$

5. $(-2h^5)(4h^3)$

6. $-8n \cdot 11n^9$

Simplify each expression.

7. $16^{\frac{1}{4}}$

8. $125^{\frac{1}{3}}$

9. $243^{\frac{1}{5}}$

10. $8^{\frac{2}{3}}$

11. $64^{\frac{4}{3}}$

12. $25^{\frac{3}{2}}$

13. $\left(7q^{\frac{4}{3}} \cdot 6r^{\frac{3}{5}}\right) \cdot \left(7q^{\frac{1}{3}} \cdot 6r^{\frac{1}{5}}\right)$

14. $\left(3h^{\frac{5}{2}} \cdot 2k^{\frac{3}{4}}\right) \cdot \left(2k^{\frac{3}{2}} \cdot 3h^{\frac{5}{4}}\right)$